



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ulrike Reeh et al. Art Unit: 2815

Serial No.: 09/221,789 Examiner: Jerome Jackson, Jr.

Filed: December 28, 1998

Title : LIGHT-RADIATING SEMICONDUCTOR COMPONENT WITH A

LUMINESCENCE CONVERSION ELEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Copies of references AA through CC listed on the attached form PTO-1449 are not enclosed pursuant to 37 C.F.R. § 1.98(a).

Under 35 USC §120, this application relies on related applications, application serial number 09/731,220, filed on December 6, 2000, now U.S. Patent No. 6,812,500 and application serial number 09/731,452, filed on December 7, 2000, now U.S. Patent No. 6,576,930. The following references were submitted to and/or cited by the Office in the prior applications and, therefore, are not provided in this application:

Desig. IDs:

CN, DP-DS, DU-EH, and EN-FK.

12/28/2004 FMETEKI1 00000027 09221789

01 FC:1806

180.00 OP

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Applicant: Ulrike Reeh et al. Attorney's Docket No.: 12406-003001 / 1996P1650 US

Serial No.: 09/221,789

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This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of C.F.R. § 1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 12406-003001.

Respectfully submitted,

Date: 12/27/04

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*See attached document certifying that Marc M. Wefers has limited recognition to practice before the U.S. Patent and Trademark Office under 37 C.F.R. § 11.9(b).

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Subertitute Form PTO-1449 Information Disclosure Statement
by Applicant

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 12406-003001

Application No. 09/221,789

Applicant

Ulrike Reeh et al.

Filing Date December 28, 1998 Group Art Unit

Use several sheets if necessary)

U.S. Patent Documents Examiner Document **Publication** Desig. Filing Date Initial Number Date ID Patentee Class Subclass If Appropriate 04/1967 AA 3,312,851 Flowers et al. 04/1967 AB 3,316,109 Rimbach AC 3,440,471 04/1969 Baczewski et al. G.A.W. Vermeulen AD 3,483,416 12/1969 AE 3,510,732 05/1970 Amans 257 77 AF 3,565,815 02/1971 Christy AG 3,621,340 11/1971 Shobha Singh William Grodkiewicz AH 3,659,136 04/1972 10/1972 ΑI 3,700,479 Arents 02/1973 De Mesquita et al. AJ 3,715,611 06/1973 Suzuki et al. 3,740,616 AK 06/1973 Peters 3,742,277 AL 07/1973 Mantic et al. AM 3,743,833 W.H. Grodkiewicz 07/1974 3,822,215 AN 04/1975 Kano et al. 313 501 3,875,456 AO 06/1978 Verriet et al. 4,093,890 AP Wantanabe ΑQ 4,139,657 02/1979 4,298,820 11/03/1981 Bongers et al. 313 463 AR 4,479,886 10/30/1984 Kasenga 252 301.4 AS AT 4,684,592 08/1987 Matsuda et al. 11/1987 Tateyama et al. ΑU 4,707,635 12/1987 ΑV 4,710,674 Sigai 12/29/1987 Huiskes et al. AW 4,716,337 van Kemenade et al. 02/23/1988 313 487 AX 4,727,283 72 10/25/1988 Angerstein et al. 357 AY 4,780,752 03/1989 Matsuda et al. ΑZ 4,816,369 AAA 4,818,434 04/1989 Lindmayer

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

entistitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 12406-003001

Application No. 09/221,789

Reprination Disclosure Statement by Applicant

by Applicant
(Use several sheets if necessary)

Applicant Ulrike Reeh et al.

Filing Date

December 28, 1998

Group Art Unit

			U.S. Pate	nt Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BA	4,825,124	04/1989	Sigai		-	
	BB	4,894,583	01/1990	Berkstresser et al.			
	BC	5,003,181	03/1991	Morlotti et al.			
	BD	5,107,317	04/21/1992	Takasaki	357	30	
	BE	5,196,763	03/1993	Yang et al.		,	
	BF	5,202,777	04/13/1993	Sluzky et al.	357	50	
	BG	5,208,462	05/1993	O'Conner et al.			
	ВН	5,256,725	10/1993	Takada et al.			
	BI	5,417,886	05/1995	Tateiwa et al.			
	BJ	5,578,839	11/1996	Nakamura et al.			
	BK	5,600,202	02/1997	Yamada et al.			
	BL	5,607,621	03/1997	Ishihara et al.			
	BM	5,624,602	04/1997	Lenox et al.			
	BN	5,635,110	06/1997	Chandha et al.			
	ВО	5,643,674	07/1997	Bruno et al.			
	BP	5,665,793	09/1997	Anders			
	BQ	5,747,832	05/1998	Nakamura et al.			
	BR	5,772,916	06/1998	Jamil et al.			
	BS	5,788,881	08/1998	Chadha et al.			
,	BT	5,798,537	08/25/1988	Nitta	257	103	
	BU	5,813,752	09/1998	Singer et al.			
	BV	5,813,753	09/1998	Vriens et al.			
	BW	5,847,507	12/08/1988	Butterworth et al.	313	512	
	BX	5,906,771	05/1999	Watkins et al.			
	BY	5,952,036	09/1999	Tadaki et al.			
	BZ	5,994,722	11/1999	Averback et al.			
	BAA	6,245,259	06/12/2001	Hohn et al.	252	301.36	

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Substitute Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12406-003001	Application No. 09/221,789	
Information Disclosure Statement by Applicant		Applicant Ulrike Reeh et al.		
06. 1 (Este several si	neets if necessary)	Filing Date December 28, 1998	Group Art Unit	

THAT BY			U.S. Pate	nt Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CA	6,613,247	09/02/2003	Hohn et al.	252	301.36	
	СВ	6,600,175	07/29/2003	Baretz et al.	257	100	
	CC	2004/0016938	01/29/2004	Baretz et al.	257	100	
	CD						
	CE			_			

	Foreig	n Patent Doo	uments or P	ublished Foreig	n Paten	t Applicat	ions	٠
Examiner	Desig.	Document	Publication	Country or			Transla	ation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	CF	0333162	09/20/1989	EPO		-		
	CG	2004989	12/05/1969	France			Abstract Only	
	СН	2043403	02/12/1971	France				
	CI	2044727	02/26/1971	France			Abstract Only	
	CJ	2073134	09/24/1971	France			Abstract Only	
· -	СК	2018353C	10/29/1970	Germany			Abstract Only	·
	CL	2,018354C	10/22/1970	Germany			Abstract Only	
	СМ	2059909	06/24/1971	Germany			Abstract Only	
	CN	DE 90 13 615	01/24/1991	Germany				
	СО	1263185	02/09/1972	Great Britain				,
	СР	1317731	05/23/1973	Great Britain				
	CQ	1317732	05/23/1973	Great Britain				
	CR	2000173	01/04/1979	Great Britain		-		
	CS	2149416	06/12/1985	Great Britain				
	СТ	00864860	03/08/1996	Japan			Abstract Only	
	CU	02011694	01/16/1990	Japan			Abstract Only	
	CV	2080970	03/22/1990	Japan.			Abstract Only	

Examiner Signature	Date Considered
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant
Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 12406-003001

Application No. 09/221,789

Applicant

Ulrike Reeh et al.

Filing Date

December 28, 1998

Group Art Unit

Examiner	Desig.	Document	Publication	ublished Foreign Country or	T		Transla	ation
Initial	ID ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	DA	03220286	09/27/1991	Japan			Abstract	1,10
	DA	03220200	09/2//1991	Japan			Only	
	DB	03287690	12/18/1991	Japan			Abstract	
					 		Only	
	DC	05315652	11/26/1993	Japan			Abstract Only	
				_			Abstract	
	DD	05315653	11/26/1993	Japan			Only	
	DE	05315624	12/17/1993	Japan			Abstract	
	DL	03313024	12/11/1993	Заран			Only	
	DF	05347432	12/27/1993	Japan			Abstract	
							Only Abstract	
	DG	6013075	01/21/1994	Japan			Only	
	DH	6017130	01/25/1994	Japan	-		- Ciny	
	_			<u> </u>			Abstract	
	DI	06053554	02/25/1994	Japan			Only	
	DJ	06076754	03/18/1994	Japan			Abstract	
	1)1	00070754	03/16/1994	Заран			Only	
	DK	06163988	06/10/1994	Japan			Abstract	
				•			Only Abstract	
	DL	06204570	07/22/1994	Japan			Only	
- · · · · · · · · · · · · · · · · · · ·	D) (0.0000	11/01/1004	-			Abstract	
	DM	06306356	11/01/1994	Japan			Only	
	DN	60090680	11/06/1986	Japan				
	DO	04137570	05/12/1992	Toman			Abstract	
	DO	04137570	05/12/1992	Japan			Only	
	DP	081010/1997	3/97	Japan .			X	
	DQ	JP 01-179471	07/17/1989	Japan -				
	DR	JP 02-927279	07/28/1999	Japan				
•	F	4.175055	06/02/1992				Abstract	
	DS	4-175265	06/23/1992	Japan			Only	
	DT	6-208845	07/26/1994	Japan			Abstract	
							Only	
	DU	JP 07-292354	07/11/1995	Japan				
	DV	JP 08-007614	01/12/1996	Japan			Х	
	DW	JP 08-096958	04/12/1996	Japan				

Examiner Signature

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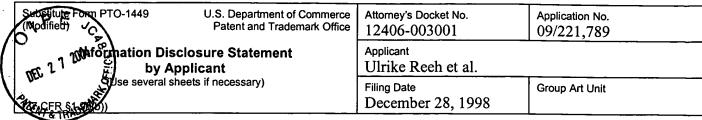
Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12406-003001	Application No. 09/221,789	
ingormation Dis- by Ap	closure Statement oplicant	Applicant Ulrike Reeh et al.		
(37 CFR §1.967)	neets if necessary)	Filing Date December 28, 1998	Group Art Unit	

TRAIL	Foreig	n Patent Doo	cuments or P	ublished Foreig	n Paten	t Applicat	ions	
Examiner	Desig.	Document	Publication	Country or			Transla	ation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	EA	JP 09-028642	02/04/1997	Japan				
	EB	JP 46-39866	06/12/1973	Japan				
	EC	JP 47-017684	09/09/1972	Japan		_		-
	ED	JP 48-6962	03/02/1973	Japan				
	EE	JP 49-1221	01/12/1974	Japan				-
	EF	JP 55-4898	01/14/1980	Japan				
	EG	JP 56-005884	01/21/1981	Japan		, <u>-</u>		
	EH	JP 62-20237	01/28/1987	Japan				
	EI	98/05078	05/02/1998	WIPO	H01L	33/00	Abstract Only	
	EJ							
	EK							

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
	EL	Robbins et al., "Single Crystal Y3A15O12: Tb Phosphor Produced by Ion Implantation:, Journal of the Electrochemical Society, Vol. 129, No. 4, pp. 816-820			
	EM	Poort et al., "Optical properties of Eu2+-activated orthosilicates and orthophosphates" Journal of Alloys and Compounds, Vol. 260, No. 1-2, pp. 93-97 (September 12, 1997)			
	EN	Japanese Patent Abstract 08007614 (Yoshinori), dated January 12, 1996			
	ЕО	English Translation of Proceedings of 264th Institute of Phosphor Society, "Development and Application of high bright white LED Lamps", November 29, 1996, pp. 5-14.			
	EP	Journal of the Electrochemical Society, Solid-State Science and Technology, "Preparation of Y ₃ AI ₅ O ₁₂ Based Phosphor Powders", February 1987, pp. 493-498.			
	EQ	Chao et al., "White Light Emitting Glass", Jour. Solid State Chemistry, p. 17-29.			
	ER	Nakamura, SPIE, "Present performance of InGaN based blue/green/yellow LEDS", vol. 3002, 1997, pp. 26-35.			
	ES	A Dictionary of Metallurgy, page 9, 1958			
	ET	Japanese Internet Literature, "Preparing Nearly-Spherical Aluminate Phosphors of Uniform Size".			
	EU	Course of Lectures: Fundamental and Application of Color Image Engineering, No. 5, Television Gakkaishi (The Journal of the Institute of Television Engineers of Japan), Vol. 47, 1993, p. 753-764.			
	EV	R.W.G. Hunt, "Revised Colour-Appearance Model for Related and Unrelated Colours", Color Research and Application, Vol. 14, 1991 p. 146-165.			

Examiner Signature	Date Considered				
	٦				
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					



Other Documents (include Author, Title, Date, and Place of Publication)			
Examiner	Desig.		
Initial	ID	Document	
	FA	Yoshinobu Nayatani, "Revision of the Chroma and Hue Scaled of a Nonlinear Color-Appearance Model", Color Research and Application, Vol. 20, 1995, p. 143-155.	
	FB	Mitsuo Ikeda et al. "Equivalent Lightness of Colored Objects at Illuminances from the Scotopic to the Photopic Level", Color Research and Application, Vol. 14, 1989, p. 198-206.	
	FC	Mitsuo Ikeda et al., "Equivalent Lightness of Colored Objects of Equal Munsell Chroma and of Equal Munsell Value at Various Illuminances", Color Research and Application, Vol. 16, 1991, p. 72-80.	
	FD	Hiroyuki Shinoda et al., "Categorized Color Space on CRT in the Aperture and the Surface Color Mode", Color Research and Application, Vol. 18, 1993, p. 326-333.	
	FE	Change of Color Conspicuity for Various Illuminance Levels Effects of the Purkuinje shift, Shomei Gakkaishi (Journal of the Illuminating Engineering Institute of Japan, Vol. 17, 1987, p. 612-617.	
	FF	Japanese Journal of Applied Physics, Part 2, Vol. 31, No. 10B, 1992, p. L1457-L1459.	
	FG	Philips Journal of Research, Vol. 36, No. 1, 1981, p. 15-30.	
	FH	Translation of JP 48-39866, 05/18/1973, Japan	
	FI	Translation of JP 6-0009, 08/19/1994, Japan	
	FJ	Translation of JP 5-50611,07/02/1993, Japan	
	FK	Translation of JP 5-72553, 10/05/1993, Japan	
	FL		
	FM		

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